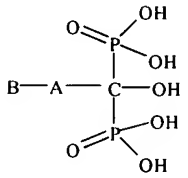
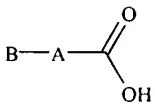
CLAIMS

1. A process for preparation of bisphosphonic acid, a compound of formula 1 or a salt thereof,



Formula 1

comprising reacting a carboxylic acid compound of formula 2 or a salt thereof

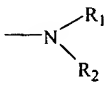


Formula 2

wherein,

A is a straight chain alkyl, a branched alkyl or a cyclic alkyl chain with up to 10 carbon atoms, which can optionally contain hetero atoms in between and,

B is alkyl, aralkyl, aromatic or heteroaromatic group, which can be optionally substituted;

or  ,

wherein, R_1 and R_2 may be selected from hydrogen or straight chain, branched or cyclic lower alkyl,

with phosphorous acid and a phosphorous chloride selected from PCl_3, PCl_5 and $POCl_3$, in sulfolane.

2. The process as claimed in claim 1, wherein the carboxylic acid is 4-aminobutyric acid and the bisphosphonic acid is alendronic acid.

3. The process as claimed in claim 1, wherein the carboxylic acid is 3-aminopropionic acid and the bisphosphonic acid is pamidronic acid.

4. The process as claimed in claim 1, wherein the carboxylic acid is 3-pyridylacetic acid and the bisphosphonic acid is risedronic acid.

5. The process as claimed in claim 1, wherein the carboxylic acid is 1-imidazolylacetic acid and the bisphosphonic acid is zoledronic acid.

6. The process as claimed in claim 1, wherein the carboxylic acid is N-(n-pentyl)-N-methyl-3-aminopropionic acid and the bisphosphonic acid is ibandronic acid.

7. The process as claimed in claim 1, wherein the carboxylic acid is 2-(imidazo[1,2-a]pyridin-2-yl)ethanoic acid and the bisphosphonic acid is minodronic acid.

8. The process as claimed in claim 1, wherein the carboxylic acid is 6-aminohexanoic acid and the bisphosphonic acid is neridronic acid.

9. The process as claimed in claim 1, wherein the carboxylic acid is 3-(dimethylamino)propionic acid and the bisphosphonic acid is olpadronic acid.